COFFEE MAKER / BREW SYSTEM

BREW

1

2

3

5

10

14

12

4/4

18

4

COFFEE POT / DECANTER

24

20

14

16

22

COMPUTER / DATA PROCESSING SYSTEM

24
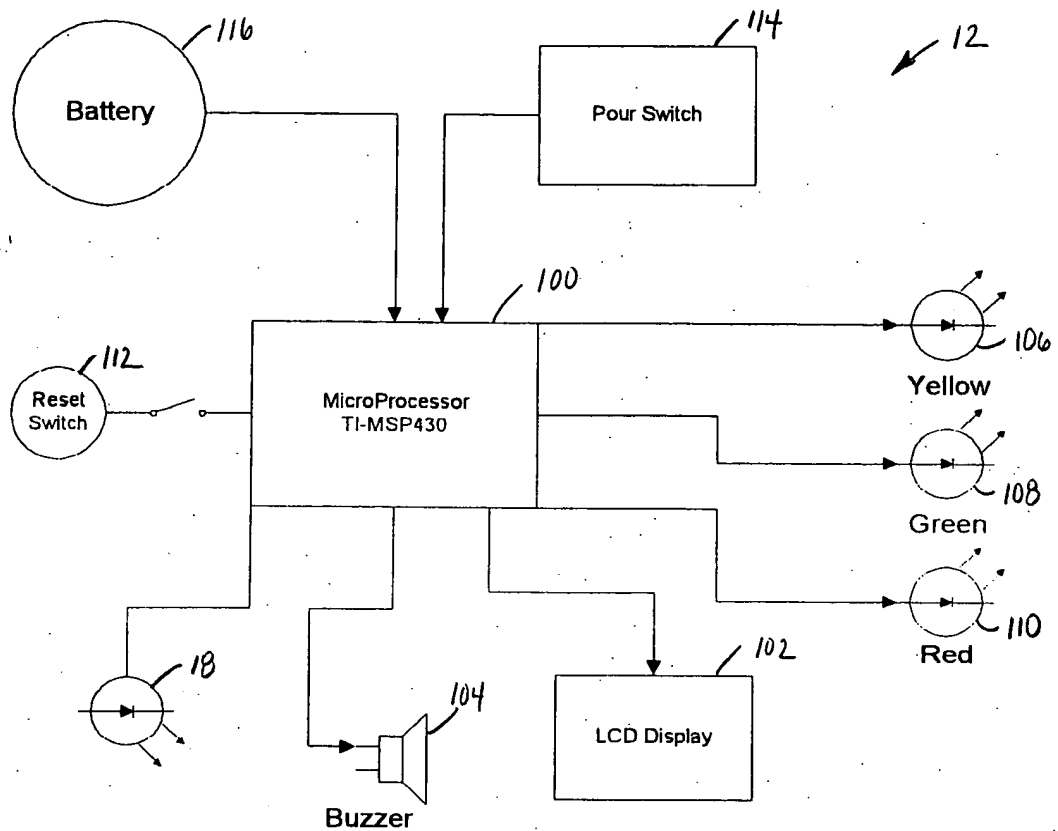
FIG. 1

System Block Decanter Device Overview
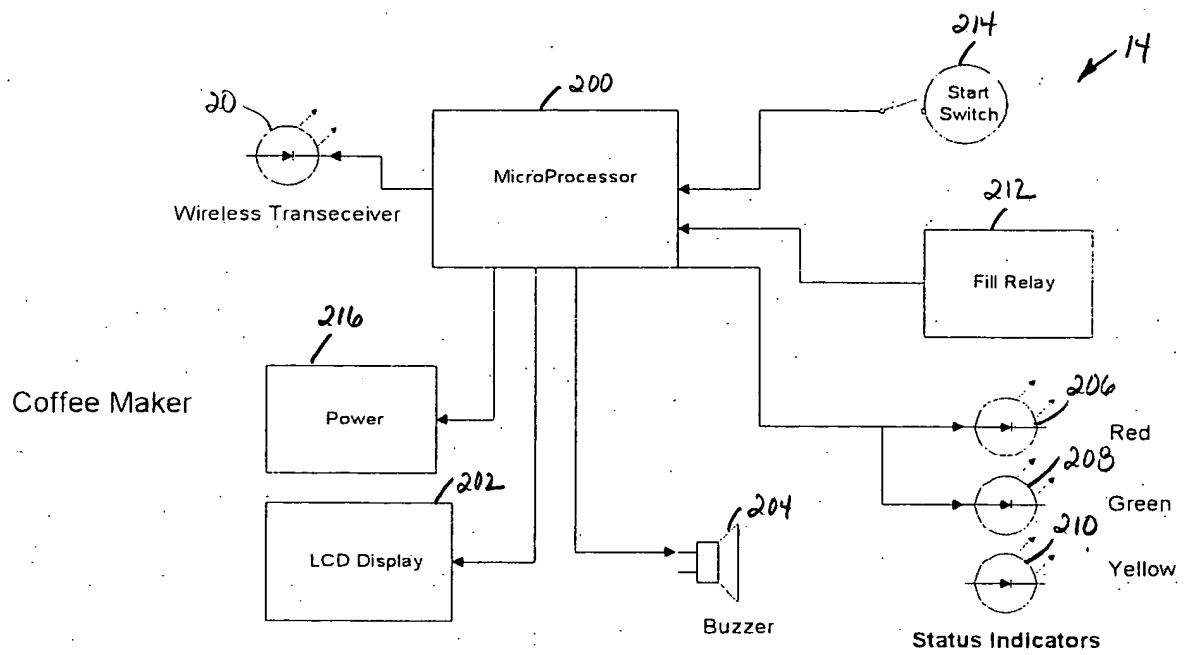
FIG. 2

214

Start
Switch

14

20

200

MicroProcessor

Wireless Transeceiver

212

Fill Relay

216

Coffee Maker

Power

206
Red

208
Green

202

210
Yellow

LCD Display

204

Buzzer

Status Indicators

FIG. 3

Smart-Pot with Decanter Clip

FIG. 4 (a)

Smart-Pot with Decanter Clip

FIG. 4 (b)
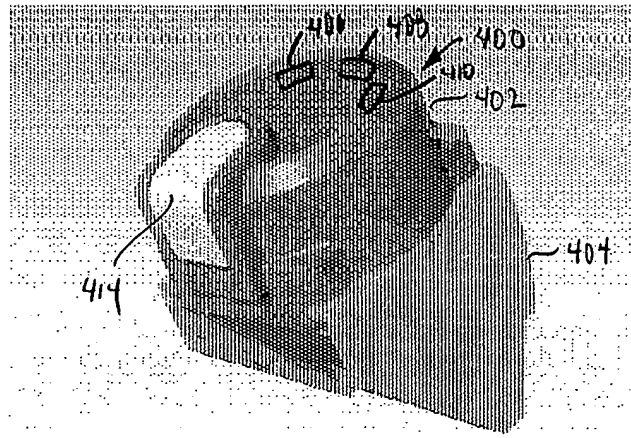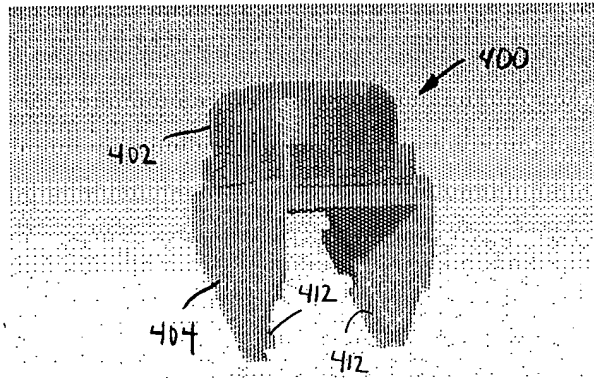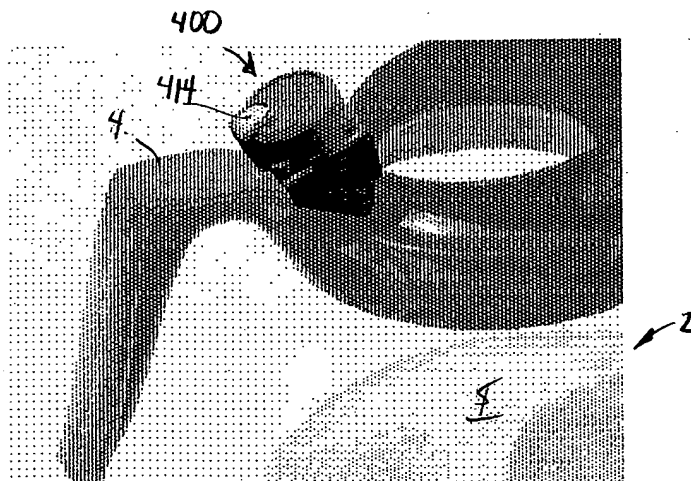
Smart-Pot on Decanter Handle

FIG. 4 (c)

420

424

422
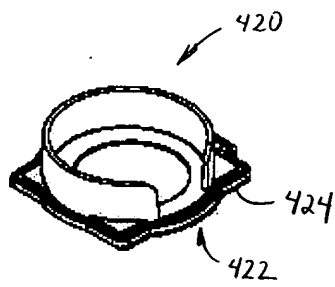
Stick-On style Base for Thermal Servers or Air-pots

FIG. 4(d)

408
412
410
400
400
400
Customer
Name
500
402
414

Customer Specific Labelling

FIG. 5(a)

406 408
410
502b
400
500
502c
402
502a
414

Symbol Image Labelling
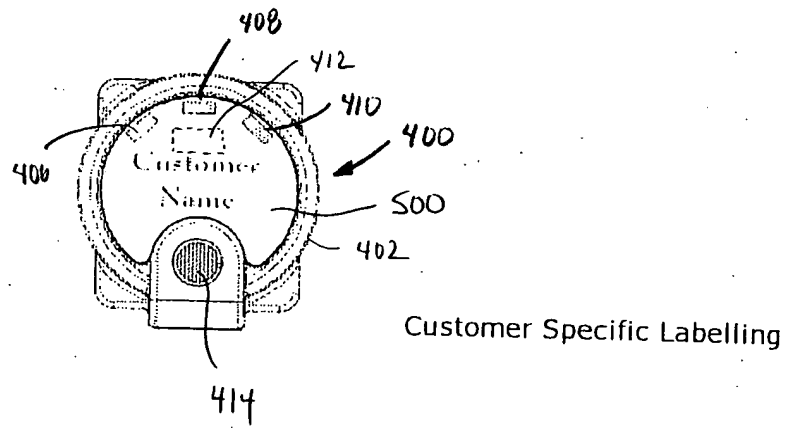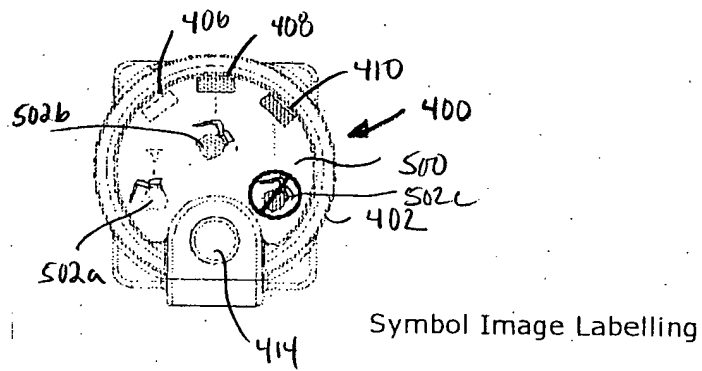
FIG. 5(b)

Smart-Pot Standard Process Flow Chart (Manual Version)

602

600

Button Press - Start - Brew Cycle

604

Volts <= 2? —— Yes ——→ (**End-of-Life Cycle**) 606

No

608

Button >2 —— Yes ——→ **Button > 4** —— Yes ——→ 610

No

No

612

Dispense Cycle

614

Button >2 —— Yes ——→

No

616

Expiry Cycle

618

Button >2 —— Yes ——→

No

620

(**End - Inactivity Cycle**)

622

Button Press?

Yes

Standard Timer Process
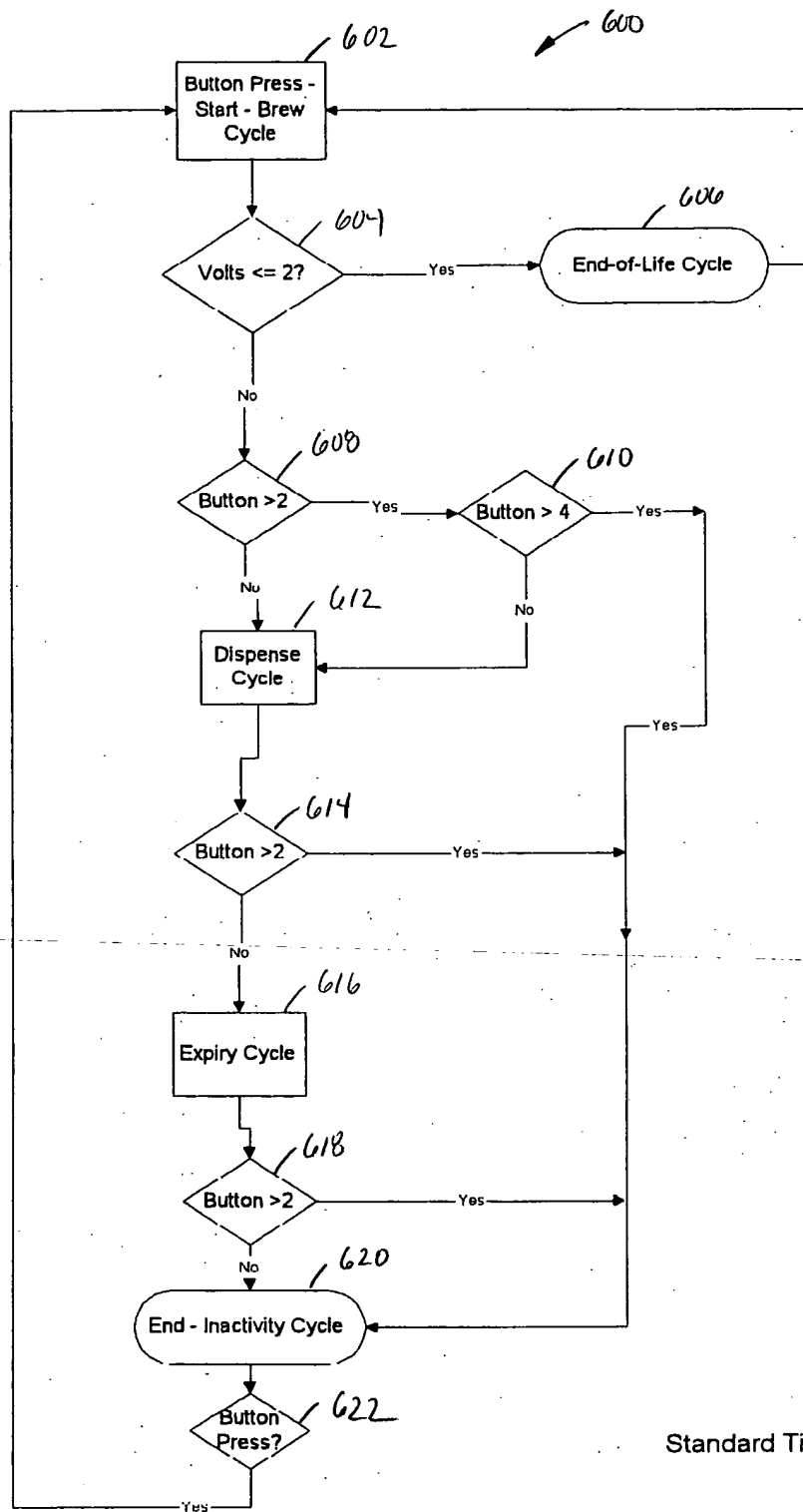
FIG. 6

Smart-Pot Standard Process (Wireless Model)

701 → 700

```
        ┌──────────┐
        │ Signal - │ 701
        │ Start -  │
        └────┬─────┘
             │
        ┌────▼─────┐ 702
        │ Brew Cycle │◄──────────────────────┐
        └────┬─────┘                         │
             │                               │
             ▼         Yes                    │
          ╱ Signal ╲ ───────┐                 │
         ╱  Start   ╲ 704    │                 │
          ╲        ╱ ────────┘                 │
             │ No                              │
             ▼                                 │
          ╱ Volts  ╲  706      ┌──────────────┐ 708   │
         ╱ <= 2?    ╲ ──Yes──► │ End-of-Life Cycle │──┤ Yes
          ╲        ╱           └──────────────┘       │
             │ No                                     │
             ▼                                         │
        ┌──────────┐ 710                               │
        │ Dispense │                                    │
        │  Cycle   │                                    │
        └────┬─────┘                                    │
             │                                          │
             ▼                                          │
          ╱ Signal ╲  712                                │
         ╱  Start   ╲ ──────────────────────────────────┤
          ╲        ╱                                      │
             │ No                                         │
             ▼                                            │
        ┌──────────┐ 714                                  │
        │Expiry Cycle│                                     │
        └────┬─────┘                                      │
             │                                            │
             ▼                                            │
          ╱ Signal ╲  716                                  │
         ╱  Start   ╲ ────────Yes───────────────────────┘
          ╲        ╱
             │ No
             ▼
      ╭────────────────────╮ 718
      │ End - Inactivity Cycle │
      ╰────────────────────╯
```
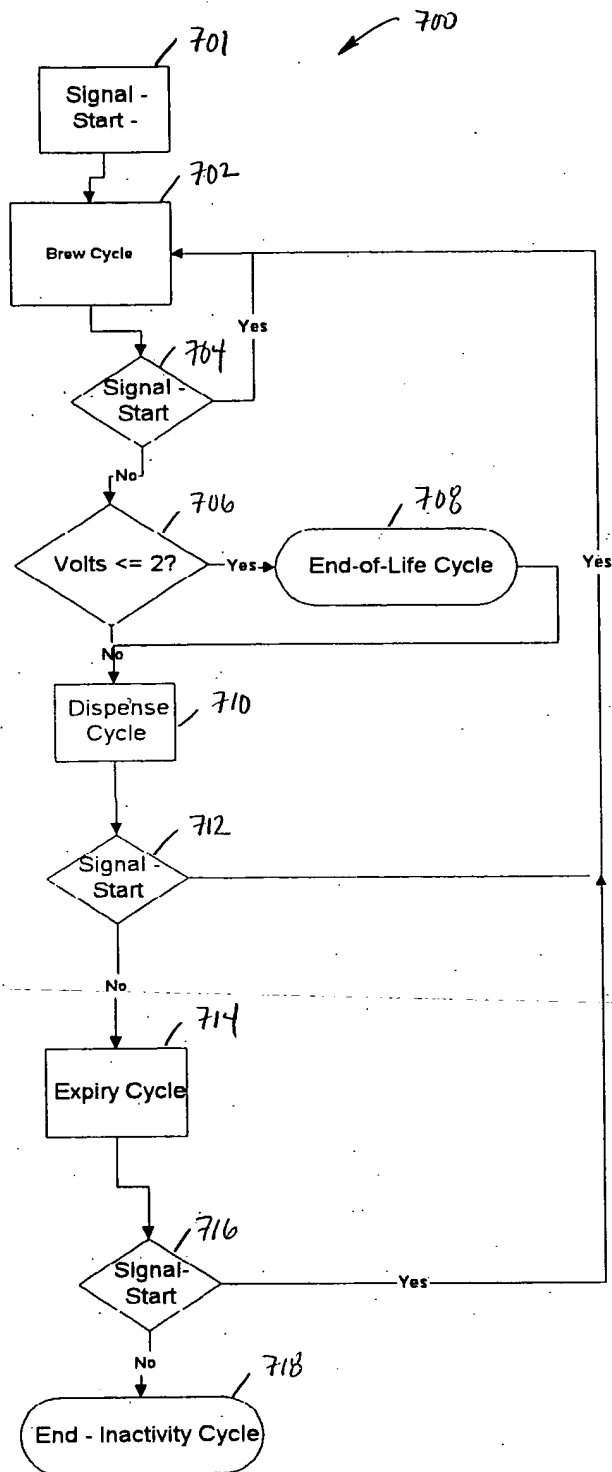
Standard Timer Process

FIG. 7

_800_

Standard unit with Beeper
and Pour switch Option

Sleep Mode _802_

Button Pressed? _804_ ——→ No ──→ (back to Sleep Mode)

Start Brew Cycle
Yellow LED Flashing _806_

Note if beeper option, beep once

Button > 3 seconds? _808_ ——→ YES ──→ Yes (to Start Brew Cycle)

Freshness Cycle
Green LED Flashing _810_

Button pressed ? _812_ ——→ Yes (to Button > 3 seconds)

NO

Expiry Cycle
Red LED Flashing _814_

Note.. If beeper option, beep every 1 seconds

Pour switch on? _816_ ——→ Yes ──→ **Turn On Beeper** _818_

Button pressed? _820_ ——→ Yes ──→ **Turn off beeper** _822_

No

End Expiry Cycle _824_

<u>FIG. 8</u>